

Attorney Docket No.: 108-087USANA0

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Continuation Application of:

Applicants : Constantine Tsikos  
Application Serial No.: 09/721,885  
Filing Date : November 24, 2000

Honorable Commissioner  
of Patents and Trademarks  
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Prior to examination of the above-referenced Patent Application, please amend the same as follows:

AMENDMENT OF THE TITLE TO INVENTION

Please amend the Title To Invention as follows:

--PLANAR LASER ILLUMINATION MODULES (PLIMS) EMPLOYED IN A PLANAR LASER ILLUMINATION AND IMAGING (PLIIM) SYSTEM --.

AMENDMENT OF THE SPECIFICATION

Please amend the Specification as follows:

On Page 1, please amend the "Cross-Reference to Related U.S. Applications" as follows:

This is a Continuation of copending U.S. Application No. 09/721,885 filed September 17, 2001, which is a Continuation-in-Part of copending [Application Serial No. 09/452,976 filed December 2, 1999; ]Application Serial No. 09/327,756 filed June 7, 1999,[ which is a Continuation-in-Part of Application Serial No. 09/305,896 filed May 5, 1999, which is a Continuation-in-Part of copending Application No. 09/275,518 filed March 24, 1999, which is a Continuation-in-Part of copending Application No. 09/274,265 filed March 22, 1999; 09/243,078 filed February 2, 1999; 09/241,930 filed February 2, 1999; 09/157,778 filed September 21, 1998; 09/047,146 filed March 24, 1998, 08/949,915 filed October 14, 1997; 08/854,832 filed May 12, 1997; 08/886,806 filed April 22, 1997; 08/726,522 filed October 7, 1996; and 08/573,949 filed

208270"TS06500T

December 18, 1995; and WIPO Publication WO 00/33239 published June 8, 2000;] and PCT/US00/15624 filed June 7, 2000, published as WO 00/75856 A1; each said application being commonly owned by Assignee, Metrologic Instruments, Inc., of Blackwood, New Jersey, and incorporated herein by reference as if fully set forth herein.

AMENDMENT OF THE CLAIMS TO INVENTION

Please cancel Claims 1-32 without prejudice or disclaimer and add Claims 33-37 as follows:

33. In a planar light illumination and imaging (PLIIM) system, a planar light illumination module (PLIM) of compact construction for producing a planar laser illumination beam (PLIB) which emanates substantially within a single plane along the direction of beam propagation towards an object to be optically illuminated and imaged, said PLIM comprising:

a module housing having an axial extent, first and second end portions, a central bore formed along said axial extent, and a recess integrally formed in said second end portion;

a visible laser diode (VLD) mounted along said bore at said first end portion of said module housing, for producing a laser beam generally along said axial extent;

a focusing lens mounted along said bore between said first and second end portions, for focusing said laser beam to a predetermined focal point; and

a laser beam expansion element mounted within said recess at said second end portion of said module housing, and expanding said laser beam along a predetermined direction and producing a substantially planar laser illumination beam from said beam expansion component.

34. The PLIM of claim 33, wherein said beam expansion component comprises a cylindrical lens element mounted within said recess.

35. The PLIM of claim 33, wherein said focusing element is micro-oscillated so that said planar laser illumination beam is micro-oscillated laterally along its planar extent.

36. The PLIIM of Claim 33, wherein said recess has a wedge-like geometry.